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AUG 04 1994

Before the  
**FEDERAL COMMUNICATIONS COMMISSION**  
Washington, D.C. 20554  
FCC MAIL ROOM

In the Matter of )  
 )  
Amendment of Section 73.202(b) ) Docket No. \_\_\_\_\_  
Table of Assignments, ) RM \_\_\_\_\_  
FM Broadcast Stations )  
Alpine, Tennessee )

To: Chief, Policy and Rules Division

**PETITION FOR RULEMAKING**

Russ H. Castle, (hereinafter "Petitioner"), pursuant to section 1.401 of the Commission's Rules, respectfully petitions the Commission to institute a rulemaking proceeding looking toward the assignment of FM Channel 255A to Alpine, Tennessee, and amend Section 73.202(b) of the Commission's Rules as follows:

City	Channel Number	
	Present	Proposed
Alpine, Tennessee	-0-	255A

In support whereof the following is shown:

1. As reflected in the attached technical exhibit, prepared by Sisk Engineering Inc., the requested assignment of FM Channel 255A at Alpine, Tennessee, can made in full compliance with all applicable minimum mileage separations and other technical requirements under the Commission's Rules. Further, Channel 255A can be assigned to Alpine, Tennessee, without any other changes in the Table of Assignments.

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2. It is the long standing policy of the Commission as mandated by Congress to allow the most efficient use of available spectrum in order to advance the public interest, convenience, and necessity. There is no FM broadcast facility currently licensed to Alpine, Tennessee. Therefore, if adopted this proposal would provide first local service to the community of Alpine, Tennessee.

3. As can be ascertained from the attached declaration, if Channel 255A is allocated to Alpine, Tennessee, petitioner will promptly apply for a construction permit for the new FM broadcast station, and if a construction permit is granted, petitioner will promptly construct and operate the station for which it is licensed.

WHEREFORE, for the foregoing reasons, the Commission should amend Section 73.202(b) of its Rules by allocating FM Channel 255A to Alpine, Tennessee.

Respectfully Submitted,

Russ H. Castle  
Petitioner

8/2/94

Russ H. Castle  
1006 Melrose Drive  
Cookeville, TN 38501

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**ENGINEERING STATEMENT** FCC MAIL ROOM  
**FOR**  
**Russ H. Castle**

**INTRODUCTION:**

This Engineering Statement has been prepared on behalf of Russ H. Castle in support of the assignment of Channel **255-A**, to Alpine, Tennessee. This channel can be assigned to Alpine, Tennessee, in full compliance with the minimum distance separation required between stations in Rule **73:207**. This assignment can be made to Alpine, Tennessee, without any other changes in 73:202, as amended.

**ALLOCATION STUDY:**

A computer allocation study has been made to determine that this channel can be utilized at Alpine, Tennessee. That allocation study is attached to this engineering statement as **EXHIBIT 1**. Russ H. Castle is very familiar with the area and feels that he can find a site for the antenna and transmitter in the area of the following coordinates, N. Lat. 36-26-54 W. Lng. 84-58-28. This site meets all the special requirements of the rules

concerning the assignment of **255-A** to Alpine, Tennessee.

### **CONTOUR CONSIDERATION:**

**EXHIBIT 2** is a computer generated map which illustrates that this channel, operating as a **Class A**, can comply with the minimum spacing requirement of **73:207** and place a city grade contour over the town of Alpine, Tennessee. **EXHIBIT 3** depicts the area where the station can be located. In order to determine that a city grade contour would be provided to the town from the hypothetical coordinates, a terrain study was conducted from those coordinates and the procedure set out in the commissions rules were utilized. **EXHIBIT 4** is a tabulation of all five radials utilized in this study. These tabulations give the average elevation from 3 to 16 kilometers in meters AMSL, the effective antenna height in meters above AAT, and the distance to the 70 dBu city grade contour and the 60 dBu service grade contour. When determining the Average Elevation above the terrain, only the eight cardinal radials were utilized. The fifth radial, which is the one going through the center of Alpine, was not included in the average.

## **CONCLUSION:**

Based on this information, it appears that this channel can be assigned to Alpine, Tennessee, as a **Class A** and comply with the commissions rules **73:207** and **73:315**. Therefore, the petitioner request the amendment of the Federal Communications Commissions Table of Assignments **73:202(b)** and assign channel **255-A** to Alpine, Tennessee. When this channel is assigned to Alpine, Mr. Castle will promptly apply for a construction permit to construct a Full Class A station at Alpine, Tennessee.

Sisk Engineering, Inc. assumes no liability for any errors or omissions in the information hereby provided, and shall not be liable for any injuries or damages (including consequential) which might result from use of this engineering report. Sisk Engineering, Inc. assumes no liability for this report if it is accepted or rejected by the Federal Communications Commission. The Applicant agrees with these stated terms and conditions or this report is considered null and void and is not to be utilized in any way or filed with the Federal Communications Commission.



Olvie E. Sisk

Date: July 26, 1994

## **CERTIFICATION**

I, Olvie E. Sisk, do hereby certify under penalty of perjury;

That my qualifications in telecommunications matters are a matter of record before the Federal Communications Commission having been presented and accepted upon many occasions in the past;

That I am a consultant doing business at Fulton, Mississippi, specializing in technical topics pertaining to the broadcast industry and the associated RF transmission systems;

That I have been retained by Russ H. Castle to perform certain technical studies and prepare this statement of same;

That the accompanying technical report and exhibits were prepared by me personally or under my immediate personal supervision and that all information presented therein is true and correct of my own knowledge and belief.



Olvie E. Sisk

Date: July 26, 1994

## **KEY TO EXHIBITS**

- 1) Exhibit 1 Allocation Study**
- 2) Exhibit 2 Contour Map**
- 3) Exhibit 3 Map Showing Site Area**
- 4) Exhibit 4 Distance To Contours**

## EXHIBIT 1 ALLOCATION STUDY

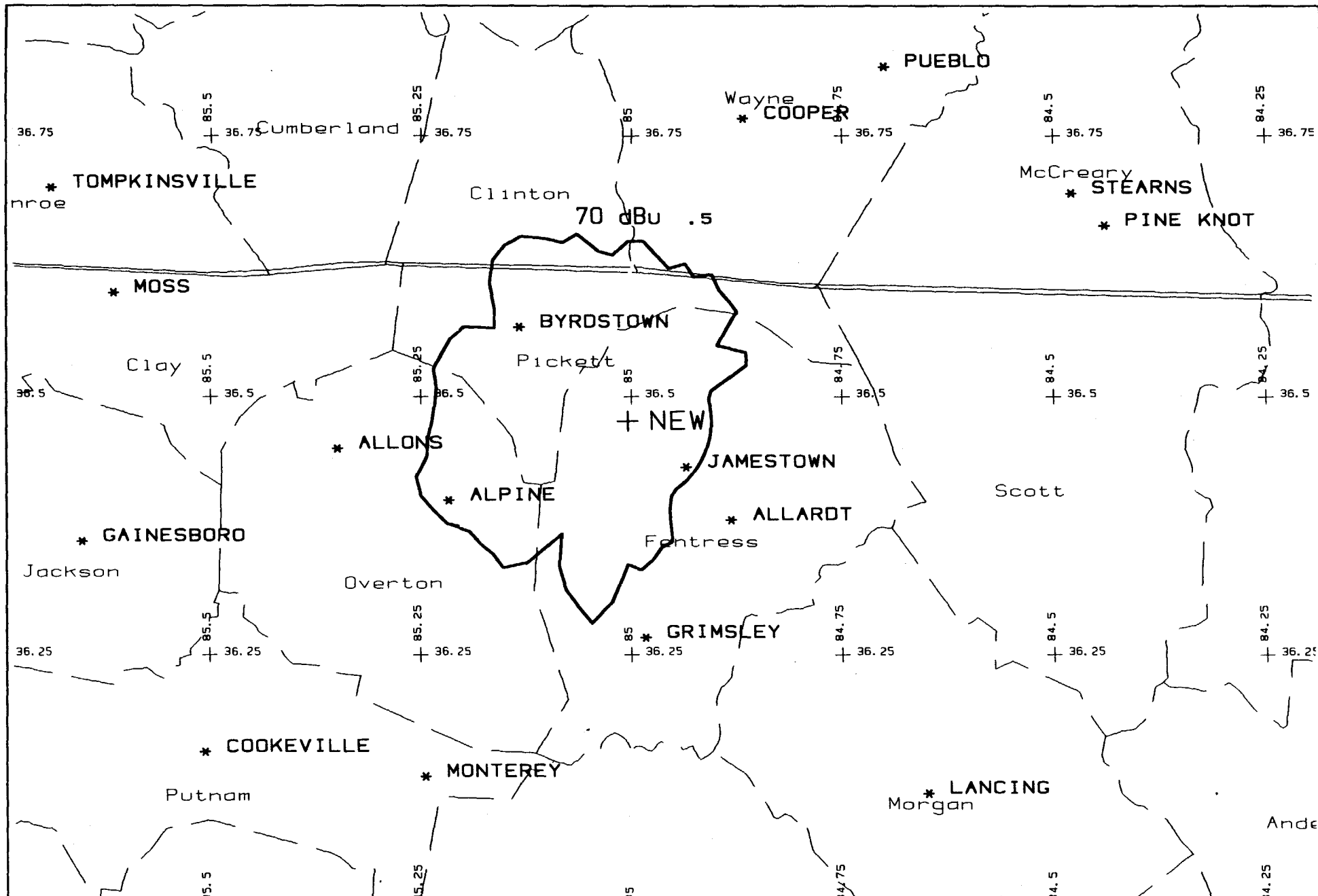
GENE SISK - SISK ENGINEERING  
 HWY. 25 S. - RADIO BUILDING - FULTON MS 38843

RUSS H. CASTLE

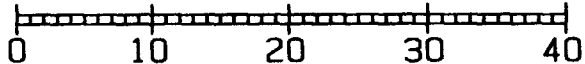
REFERENCE	CLASS A	DISPLAY DATES
36 26 54 N		DATA 06-27-94
84 58 28 W	Current rules spacings	SEARCH 07-26-94
----- CHANNEL 255 - 98.9 MHz -----		

CALL	CH#	CITY	STATE	BEAR'	D-KM	R-KM	MARGIN
WXVO	254A	Oliver Springs	TN	130.3	72.62	72.0	0.62 <
WHUBFM	253C2	Cookeville	TN	232.5	55.76	55.0	0.76 <
WANT	255A	Lebanon	TN	257.0	119.14	115.0	4.14
WKDOFM	254C3	Liberty	KY	3.1	95.33	89.0	6.33
WAPC	256A	Edmonton	KY	321.1	82.37	72.0	10.37
WXVL.C	257A	Crossville	TN	190.3	46.62	31.0	15.62
WNOX	256A	Loudon	TN	140.0	95.90	72.0	23.90
AD252	252A	Whitley City	KY	53.6	55.31	31.0	24.31
WXVL	257A	Crossville	TN	185.7	55.54	31.0	24.54
WSIPFM	255C1	Paintsville	KY	52.3	244.27	200.0	44.27





Scale in km



NEW 255 6kW

N. Lat. 36 26 54

W. Lng. 84 58 28

SISK ENGINEER - 07/94

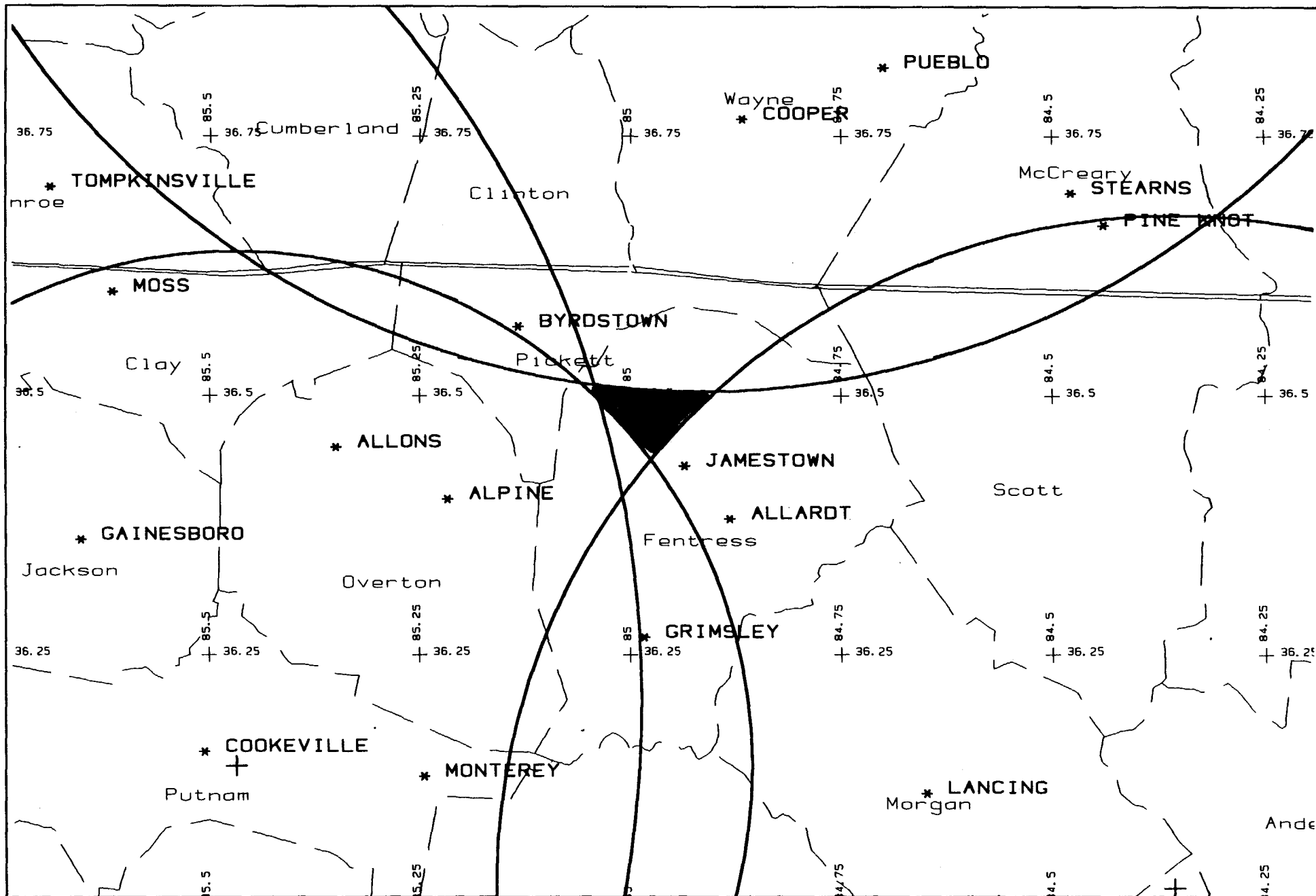


EXHIBIT 3 SITE AREA

Scale in km



NEW 255 6kW

N. Lat. 36 26 54

W. Lng. 84 58 28

SISK ENGINEER - 07/94

# EXHIBIT 4 DISTANCE TO CONTOURS

## TERRAIN AND CONTOUR DATA RUSS H. CASTLE

ERP = 6 kW  
FM - 2-6 Tables

Azimuth Deg T.	Ave. Elev. 3 to 16 km Meters AMSL	Effective Antenna Height Meters AAT	ERP (dBk)	F(50-50) Distance to 70 dBu Contour km	F(50-50) Distance to 60 dBu Contour km
0	388.9	127.7	7.782	18.5	31.6
45	436.7	79.9	7.782	14.3	25.5
90	493.0	23.6	7.782	8.9	15.8
135	496.0	20.6	7.782	8.9	15.8
180	463.1	53.5	7.782	11.9	21.3
225	413.1	103.5	7.782	16.5	28.8
270	261.0	255.6	7.782	25.7	42.7
315	380.9	135.7	7.782	19.0	32.5

Ave. = 416.6 M 100.0 M

Antenna Radiation Center AMSL = 516.6 M

### Geographic Coordinates:

North latitude: 36 26 54  
West longitude: 84 58 28